

# Bulletin

University of Toronto

Friday, June 18, 1976

No. 40 29th Year

## GOVERNING COUNCIL One-year hiatus for TYP

by Paul Carson

The controversial Transitional Year Programme (TYP) at Innis College will be suspended during the 1976-77 academic year, the Governing Council decided at its meeting on June 17.

A motion, endorsed by the Academic Affairs Committee, that would have permitted TYP to continue under a revised governing structure was defeated. The Governing Council then approved a motion that:

1. Applications not be processed for entry into the Transitional Year Programme for the academic year 1976-77.

2. Members of the staff to whom an employment commitment has been made for 1976-77 receive severance pay (or in the case of those teaching part-time elsewhere in the University, compensation pay) equal to the amount which they received in the Transitional Year Programme in the last twelve months.

3. Students enrolled in the programme in 1975-76 be considered for entrance to University programmes following the usual



The conferring of an Honorary Degree upon composer Harry Somers (right) on June 10 was marked by a performance of 12 *Minatures*, composed by Dr. Somers in 1963. The performers, all students in the Faculty of Music, are: Penelope Clarke, flute; Victoria Mazur, spinet;

Martin Shaver, cello; Carolyn Tomlin, soprano. In his address, Dr. Somers disagreed with the popular notion that "music does wonders for the savage breast, is the very food of love, induces cows to yield more milk, crumbles walls and will announce the last judgment."

procedures, and part-time appointments be established for counselling graduates of the Transitional Year Programme who are enrolled in University degree courses.

4. A Task Force be appointed immediately to recommend to the Provost on (a) whether the need for the programme still exists and (b) if so, in what way the University can best meet that need.

5. Resources appropriated for funding the present programme should not be diverted for any

other purposes until so directed by the Governing Council.

During the discussion of the motion, several speakers said that serious political and organizational problems could not be resolved while the program continued to operate.

President John Evans said that the meeting that there is "a revised" and "revised" opportunity for students lacking the traditional educational background to prepare for admission to university. However, he added, there is ample evidence indicating that the "sincere fundamental conflicts" among TYP staff "have adversely some students and some categories of students."

Provost Donald Chant said that to pause for a year would permit thorough examination of the original purposes for the program. He added that the TYP students "might be the real victims" if the

## Paterson named ISC Director

Elizabeth Paterson, Acting Director of the International Student Centre since last fall, has been named its Director, effective July 1. Ms. Paterson joined the ISC staff in 1972 as Foreign Student Adviser; previously, she was Director of Selection, Canadian Crossroads International, an organization placing Canadians in short term volunteer projects, primarily in developing countries.

She graduated from U of T in 1964 and served for two years with CUSO as a teacher of French in Ghana.

Continued on Page 4

## Governing Council highlights

**Approved** — recommendations on Grading Practices Policy, and on employment conditions of part-time teaching staff.

**Approved** — an allocation of \$5,700,000 for renovation and expansion of clinical facilities in the Faculty of Dentistry, including a five-storey addition to the Dental Building.

**Assigned** — to the Planning and Resources Committee "the responsibility of examining, in a broad way, the role of student fees on the long-range financial planning of the University and to make recommendation to the Governing Council."

**Approved** — the discontinuance of the Public Health Nursing Certificate Programme.

**Approved** — increases in residence and food service rates; the 1976-77 budget of the Women's Athletic Association; the 1976-77 budget of Hall House Personnel Policies entitled *Objectives and Principles* and published in the *Bulletin* in the issue of June 4.

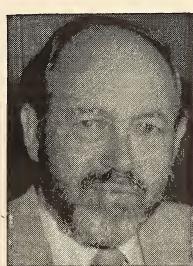
**Referred back to Academic Affairs Committee** — admissions policy concerning student visa applicants.

## Two Principals chosen: A D Allen, W G Saywell

Two senior administrative appointments announced at yesterday's meeting of the Governing Council are those of Prof. Albert Allen, the former Dean of the Faculty of Arts and Science, as Principal of Scarborough College, and Prof. William Saywell, chairman of the Department of East Asian Studies, as Principal of Innis College. Both appointees will serve for seven years, effective July 1.

Prof. Allen succeeds Principal Ralph Campbell, who is leaving to become President of the University of Manitoba. Prof. Saywell's predecessor, Principal Peter Russell, completes his five-year term on June 30 and will then take a year's research leave, during which he plans to complete a book on the Canadian judicial process.

Albert Derrick Allen, 56, was born in London, England, and served during the Second World War with the Royal Air Force. He studied at University College, London, earning a Ph.D. in 1953. He came to Canada in 1957, and after two years as a research chemist with the International Nickel Company, joined the Department of Chemistry as assistant professor.



Prof. A.D. Allen

supervised the establishment of the New Programme in the Faculty's curriculum, the introduction of numerous interdisciplinary courses and the development of a revised governing structure for the Faculty.

Retiring as Dean in 1972, Prof.

Allen returned to his teaching and research duties in the Department of Chemistry. In recent years, he has served as a member of the Research Board and as chairman of a task force investigating the employment conditions of University research staff supported by external research grants.

Prof. Allen and his research group are internationally known for their work on complex compounds of the transition metals. A major achievement was their discovery in 1965 of the first transition metal complex of molecular nitrogen which opened up and stimulated a world-wide research effort into the role of transition metal compounds in the biological process of nitrogen fixation. Dr. Allen and his group have contributed to the great advances in this field that have been made in the last ten years and they continue their research for, and investigation of, integrated systems that might increase our understanding of these vital processes. The National Research Council has provided about \$300,000 in research support since 1959. The American Chemical Society, the Atkinson Foundation and the Department of Chemistry

have also provided substantial support for this work.

**William G. Saywell**, 39, obtained



Prof. W.G. Saywell

his undergraduate and graduate education at U of T, and joined the teaching staff of the Department of East Asian Studies in 1961, becoming its chairman a decade later.

He has travelled widely in the East and the Soviet Union, and is the author of numerous articles and analyses of current Chinese issues and problems. His chief teaching and research interests are the history and politics of 20th century China, the development of Chinese nationalism and contemporary Chinese foreign policy.

In 1972-73, Prof. Saywell served as Sinologist with the Canadian Embassy in Peking, the first appointment of its kind at a Western embassy in China since 1949.

As a department chairman, Prof. Saywell has succeeded in achieving closer links between Asianists at the University and high schools, and has promoted the introduction of the study of China and other non-Western nations into the secondary school curriculum.

He has obtained several significant research grants for the University from domestic and foreign governments as well as from Canadian and American corporate foundations, from 1974-75. Prof. Saywell served as first director of the U of T-York Joint Centre on Modern East Asia, funded by the Donner Canadian Foundation.

## BRIEFLY

Four Decades of poetry 1890-1930, a new journal concerned with English poetry, has been established. It will carry articles, bibliographies and reviews and will be published twice a year. Prof. Michael J. Sidnell and Eric W. Donville of the Department of English are on the editorial board and Prof. William J. Keith is a member of the advisory board. Subscriptions to *Four Decades* are \$5 per year. More information is available from Esther Fisher, 231 Lonsmount Drive, Toronto, M5P 2Y9, telephone 782-3158.

A research project at the Best Institute is looking for a professional assistant: a recent Ph.D. interested in collaborating in the area of protein synthesis and

hormone action in the thyroid. Research will include isolation of messenger-RNA and translation in a heterologous cell-free system and studies of the control of ornithine decarboxylase activity and polyamine synthesis.

Anyone interested should get in touch with Dr. G.N. Burrow, room 410C, C.H. Best Institute, or telephone 978-8785.

An evening course on ore deposits will be held on Wednesdays from 6.30 to 9.30 p.m. at the Department of Geology. The course will start in late September and finish in early April with a break over Christmas. The course will be given by Profs. S.E. Kesler and A.J. Naldrett. Topics will include massive sulfide, nickel,

porphyry copper, lead-zinc-silver vein, Mississippi Valley, uranium and other deposit types.

For information about registration, please write or call Roland Sharples, Department of Geology, telephone 978-6683.

Scarborough College is offering walking tours on Wednesdays and Fridays at 11 a.m. and 3 p.m. from July 21 to Aug. 27. Tours will begin at the main entrance to the College and will take approximately one hour to complete.

Special group tours are available on request. To arrange a special tour, or for more information about the regular tours, get in touch with the Community Relations Office at Scarborough, telephone 284-3243.



Beryl Plumptre, chatting with Chancellor Eva Macdonald and President John R. Evans in our picture, received an Honorary Degree on June 15. Mrs. Plumptre addressed graduates of Erindale College on some lessons she has learned from "the Ottawa School of Practical Political Experience".

## FORUM

### Professor gives low marks to evaluation discussion

#### To the Editor:

On June 10, I visited the meeting of the Academic Affairs Committee of the Governing Council for the purpose of compiling a written peer evaluation of that Committee's discussion of the Report of the Working Group on Teaching Evaluation, the Teaching Review and Promotion Process. It turned out that this was not the first time that the Committee had discussed this Report; nevertheless, I shall lay out below first the positive features of the June 10 discussion in the probably vain hope that this evaluation will foster willing cooperation in the improvement of the level of discussion of the Report. Then I shall discuss the negative features, in order to give a properly balanced, but not overzealous account of the proceedings.

#### 1. Positive

(a) One member made the first intelligent and insightful remark that I have ever heard made concerning the evaluation of University teaching. He stated that the Report ought to have contained some discussion as to what we consider to be the nature of University teaching in general, and that we should reach understanding on this matter before we set out to evaluate that teaching.

(b) The Report has now been boiled down into a set of suggestions as to appropriate methods of evaluation. One member, however, showed briefly and convincingly that none of these methods are of much use.

(c) A member stated that the University is in general becoming

more concerned with process rather than with content. In particular, we are becoming more concerned with evaluating teaching rather than with teaching itself.

(d) It was suggested that we ought first to have found out what departments are actually doing about teaching evaluation, for it might turn out that no further action was necessary.

(e) One member made the point that she was not surprised that some faculty members found the Report offensive.

#### 2. Negative

(a) In general, apart from the above-mentioned points, the discussion was on a lower level than even my fertile imagination had feared it would be. In particular, points 1 (a-e) above were listed mainly with silent incomprehension. When this was not the case, the concern on these remarks showed that the respondent himself did not understand the point that was being made.

(b) It was stated by the Chairman that the Report explicitly stated that departments or divisions were to be free to do what they like. One wonders, which did he mean, departments or divisions? There is clearly a difference. If this were the intention, why have a report at all? Surely, "he will therefore accumulate the evidence of the results of his teaching" carries a coercive force, and is neither presumptive nor permissive as Prof. Dunphy implies.

(c) Some members expressed apparent annoyance over the fact that there have been criticisms of the Report. It would seem that in this University professors may evaluate students' work and that

professors' teaching and research may be evaluated, but that anyone who dares to evaluate a Governing Council Report is overstepping the mark.

(d) One member stated that Prof. Bedford's letter describing the Report as "Sovietization" was reactionary. This is the standard reply that Soviet officials make to their critics. The member stated that implementation of the Report would lead to improvement of teaching, which was already good in this University. (Sorry, add the last point to 1. above.) Since the Report deals specifically with tenure and promotion, it is not centred only with those below the rank of Full Professor. How does the Committee propose to improve the Full Professors' teaching?

(e) One member who stated that he was a member of the Working Group which compiled the Report, said that he was upset that people should make "blanket" criticisms of the Report. Surely, a report which tells people who devote their lives to education that in evaluating themselves they will be warned against "overkill" and producing "over-zealously compiled dossiers" is itself a "blanket" insult.

As a person who taught school for ten years before being invited to teach at this University, where I have been for fifteen years, I feel that first of all we might pursue point 1. (a), above. It is precisely the difference between schoolteaching in general and University teaching in general that is of interest. However, it is perhaps best not to pursue formal evaluation at all. The only useful evaluation is one that goes on implicitly in the classroom between teachers and students who treat one another as friends cooperating in the pursuit of common interests. Every so often a student or students will come to one after the course and discuss in a friendly and positive way the method of improving the course in general. For several years, the SAC has been trying to turn this process into an adversary relationship, without apparently realizing that the only worthwhile education is one that is conducted in an atmosphere of mutual regard and affection. Now that the Governing Council has decided that it will take over the work of sabotage initiated by the SAC, it is time for us to do all that we can to ensure that they do not

### Appendix 10

#### Report on teaching staff's role in governance

Appendix 10 to the report of the special study group on the role of the teaching staff in the governance of the University (printed in the *Bulletin*, June 4) is a selected list of Governing Council actions covering the period 1972-75.

#### Established

- Woodsworth College
- School of Continuing Studies
- Division of Community Health in Faculty of Medicine
- Graduate Centre for Religious Studies
- Office of University Ombudsman
- Private Support Board to assess needs for private support and direct financial appeals to private sector

#### Restructured

- Council of School of Physical and Health Education
- Council of Faculty of Music

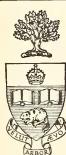
#### Initiated

- study of relations of Faculty of Education and Ontario Institute for Studies in Education

#### Approved

- amended restructuring of School of Graduate Studies
- changes in relations of Faculty of Music and Royal Conservatory of Music
- changes in University of Toronto Schools including admission of girls
- amalgamation of four athletic units into one Department of Athletics and Recreation
- regrouping of academic resources of Faculty of Food Sciences to offer Arts and Science programs focusing on nutrition and food science and community living and to assist in basic science instruction in the Faculty of Medicine
- Regrouping of academic resources of School of Hygiene to be utilized for programs in the basic sciences and in the Division of Community Health of the Faculty of Medicine
- Memorandum of Understanding relating to the role of the Colleges in the Faculty of Arts and Science
- new Policy and Procedures on Academic Appointments
- certain recommendations of the Berlyne implementation committee on the new program in the Faculty of Arts and Science
- Master of Industrial Relations program
- various changes in admission requirements
- Academic Code of Behaviour and enactment respecting disciplinary tribunals
- induction to Ministry of Colleges and Universities on tuition fees and student aid
- changes in staff housing loan scheme
- policy on University daycare facilities
- statement on protection of freedom of speech
- General Objectives of the University of Toronto
- University of Toronto campus plan
- University investment policy
- Sesquicentennial fund-raising campaign
- terms of reference for Connaught Fund
- policy on investment pool
- policy of establishment of capital appropriations
- parking policy
- policy regarding making information available to surrounding community
- policy concerning community relations
- statement on expansion limitations
- University of Toronto Library's statement of objectives
- planning recommendations for Law
- planning recommendations for Library Science
- guidelines for academic appeals

# UNIVERSITY OF TORONTO Bulletin



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# STAFF NOTES



Dr. H.W. Taylor, Associate Dean, Physical and Life Sciences and Prof. E.A. Robinson, Principal of Erindale College display the E.A. Robinson Medal that will be awarded to students who have shown academic excellence in each of Erindale College's four centres: humanities, physical and life sciences, social sciences and part-time studies.

On the front of the medal, the Erindale College coat of arms is ringed by the words "E.A. Robinson", across the top, and "Medal", across the bottom, and six maple leaves. On the reverse, "Erindale College" at the top and "University of Toronto" at the bottom and four maple leaves encircle a space where the name of the recipient will be engraved. The total of ten maple leaves symbolizes the ten years that will have passed since the founding of the College when the first medals are awarded in June, 1977.

A unique, gold-plated edition of the medal was presented to Prof. Robinson on May 10. The master template is a gift from the academic staff of the College to Dr. Robinson and is lodged with the College.

Alec Campbell and his staff in Erindale's academic workshop were responsible for the production of Dr. Robinson's medal. They will also produce the silver-plated series to be awarded to the students.

## Erindale College

Prof. MICHAEL KIMBERLEY gave a public slide show in Beamsville at the end of February on "Geology and Geomorphology of Northern B.C. and the Yukon".

Prof. ROGER BECK has been awarded a Gilbert Norwood Traveling Award for his work on Mithraism, a Roman religious cult. He will use the award to study Mithraic remains in Britain, South Germany and Italy particularly as they elucidate the role of astrology and iconography in the cult.

Prof. L. ELEEN, at a conference on the relations between literature

and the other arts in the Middle Ages held in Toronto in April, gave a paper on "The Art of Memory in Mithraic Culture" and acted as chairman for a session on iconography and drama.

Dr. BECKY A. SIMON took part, by invitation, in a symposium on taxonomy of the Australopithecines held at Northern Illinois University, DeKalb, in April.

Prof. JEROME MELBYE was a guest at the Clarke Institute where he spoke to the historic section on "Trepanation (skull surgery) in Prehistoric Canadian Indians".



Prof. R.S. Sengworth, Faculty of Applied Science and Engineering, was officially presented with the McCharles Prize at the Engineering Convocation on June 10. The prize, given only 12 times since its inception in 1907, is awarded for the discovery of improved methods of treating Canadian ores and minerals, for contribution to safety in the use of electricity, or for notable achievement in scientific research in any useful practical line. Prof. Sengworth was awarded the prize in recognition of his several successful, innovative developments in the induction heating and melting of iron and steel.

## Arts and Science

### Botany

Prof. JACK DAINTY was made a corresponding member of the Botanical Society of America at the society's meetings held in New Orleans in June.

### Philosophy

Prof. CHARLES HANLY presented an invited paper entitled "On

Change in Psychoanalysis" at the annual scientific meetings of the Canadian Psychoanalytic Society in Montreal in June.

### Astronomy

Prof. RENE RACINE will be the director of the new Quebec Observatory to be built by the University of Montreal and Laval University on Mount Megantic in

### Library

DAVID RUDKIN, University Archivist, was elected vice-president of the Association of Canadian Archivists for 1976-77 at the association's annual meeting in Quebec City in June. Under the association's constitution, the vice-president automatically succeeds to the presidency the following year.

### Institute for Policy Analysis

Prof. I.A. SAWYER gave a paper on "The Development of Economic Science and Econometric Modelling" at the meetings of the Eastern Economics Association held in Bloomsburg, Pennsylvania in April.

### University College

Prof. FREDERICK J. MARKER presented an invited brief to the Royal Commission on Violence in the Communications Industry in May. Appearing on behalf of the Graduate Centre for Study of Drama, Prof. Marker, who is also editor of *Modern Drama*, addressed the Royal Commission on the subject of violence in modern drama and theatre.

### Victoria College

Prof. DONALD V. WADE attended the international congress on Serrat in Pakistan, in March, as the guest of the Department of Religious Affairs, Government of Pakistan, and the Hamdard National Foundation. The congress held sessions in Islamabad, Lahore, Peshawar, Karachi and Quetta.

### Forestry and

### Landscape Architecture

Prof. K.A. ARMSON, on leave of absence from the Faculty, presented a lecture entitled "Forest Management in Ontario" at the University of British Columbia in February.

Prof. F.J. KEENAN was a panelist at a conference on wood waste utilization held at Lakehead University in January and sponsored by the Ontario Ministry of Industry and Tourism. Prof. Keenan has been appointed chairman of the fastenings subcommittee of the Canadian Standards Association committee for code of recommended practice for engineering design in wood.

### Aerospace Studies

Dr. P.C. HUGHES attended the symposium on the Dynamics and Control of Nonrigid Space Vehicles, convened by the European Space Agency in Frascati, Italy, in May. He acted as chairman for the session on dynamic modelling of spinning satellites and gave a paper entitled "Deployment Dynamics of the Communications Technology Satellite".

the Eastern Townships. The announcement of the joint project and Prof. Racine's appointment was made by the Rectors of the two universities in Montreal in March.

Earlier in the month, Prof. Racine was on a lecture tour for the Canadian Association of Physicists speaking on "Astrophysical Problems and Canadian Solutions" at the Universities of Alberta, Calgary, Lethbridge and Saskatchewan.

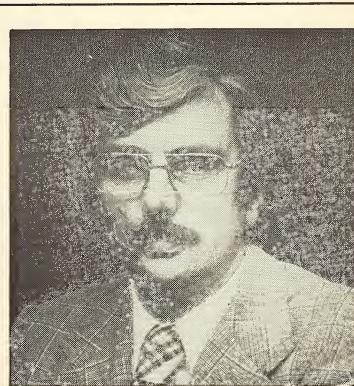
### Dentistry

The Faculty of Dentistry has recently offered three postgraduate continuing education courses: "Orthodontic Treatment Procedures Using the Frankel Appliance" under the general direction of Dr. R.O. FISK with guest lectures by Dr. Rolf Franken and Zyscakau, East Germany and Dr. H. H. Frank, University of Manchester; "The Treatment of the Patient with Maxillo-facial Defects" under the general direction of Dr. G.A. ZARB; and "The Terminal Dentition, Gerodontics and the Edentulous Patient".

Staff members of the MRC Group in Periodontology attended the International Association for Dental Research meeting held in Miami and presented eight papers: "Resorption of Extracellular Substance of Periodontal Ligament in vitro", Dr. A.H. MELCHER; "Time-Lapse Cinemicrography of Porcine Periodontal Ligament Cells in Culture", Dr. D.M. BRUNETTE; "Culture of Cells Derived from Bone on Artificial Collagen", Dr. J.N. HEERSCH; "Collagenase and Collagenase-Moderated Osteoclasts", Dr. J. SODEK; "A Method for Maintaining L-ascorbic Acid Levels in Medium used for *In Vitro* Culture of Periodontium", J. FENG; "Effect of a Heat-stable Factor in Fetal Calf Serum on Bone Resorption *In Vitro*", B.N.G.; "PTH-Response After Long-Term Culture and Sub-culture of Cells from Newborn Rat Calvaria", Dr. L.G. RAO; and "Chemical Nature and Properties of Porcine Gingival Collagen", Dr. H.M. WANG.

Several papers were presented by members of the Faculty at the International Association for Dental Research meeting in Miami in March: "Tissue Response to Overdenture Therapy", Dr. A.H. FENTON; "Fluoride Content of Tissue", Dr. J.A. HARGRAVES; "Similar Implantation of Human Strands of Suture in the Rat Tendon", Dr. R. SUCRO and "Glucose Diet", Dr. R.C. BURGESS; and "Histological Evaluation of the Osteogenic Capacity of Sclera", Dr. R.S. TURNBULL. Also at the IADR meeting, Dr. D.L. ANDERSON presented a paper entitled "Relationship between Dentition, Bone and Body Size" and at the annual meeting of the American Association of Physical Anthropologists, held in St. Louis in April, he gave a paper entitled "Dentition, Chin and Body Size Correlation".

During the spring term, lectures were given at several associations: "Diseases of the Oral Mucosa" to the Andover Study Club; Dr. J.H.P. MAIN, Dr. A.J. DUNCY spoke of "The Cardiac Patient" to the Intercounty chapter of the American Academy of General Dentistry; Dr. C.D. BEIERL spoke to the Central Toronto Dental Hygienist Association on paedodontics; Dr. D.W. STONEMAN lectured on "Differential Radiologic Interpretation" to the Bay of Quinte Dental Society in Belleville; and Dr. A.H. FENTON addressed the Toronto Academy of Dentistry General Practice Study Club on "Biologic Considerations in Restoration of Partial Edentulism".



Prof. M.E. Charles, chairman of the Department of Chemical Engineering, has been given the ERCO Award of the Canadian Society for Chemical Engineering for 1976. The award, consisting of a silver medallion and an honorarium of \$500, is presented to a resident of Canada who has made a distinguished contribution to the field of chemical engineering while working in Canada.

The recipient is required to present a lecture at the Canadian Chemical Engineering Conference. Prof. Charles will be giving his lecture at the conference to be held in Toronto in October.

# 'Artificial skin' developed to aid burn victims

by Robbie Salter

Approximately 50,000 persons are burned each year in Ontario. Of these, some 200 die, and the commonest diagnosis made in children — when ranked by number of cases, days in hospital, and cost of care. According to statistics, the incidence of burns, especially among children, is increasing.

Many adult burn victims must change their occupations, and hundreds of working years are lost annually through lengthy stays in hospital and readmission for revision of scars. The loss of skin, whether due to trauma or burns from electrical, chemical, or thermal agents, results in severe pain, shock and loss of fluids, and often death.

A team of scientists at U of T is currently evaluating the use of "artificial skin" for use in burn and other skin therapy. For this project, the Hospital for Sick Children Foundation has awarded a grant of \$34,000 to Dr. Dennis Smith, Professor of Dental Materials Science, Dr. James Guillet, Professor of Chemistry, and Dr. Walter Zingg, associate director, the Institute of Biomedical Engineering.

Dr. Smith explains that the synthetic skin is a hydrogel, and is 60 percent water. "It is similar to natural skin in that it is permeable to oxygen and water," he says, permitting cells to "breath" and keeping bacteria out and vital plasma in, thus reducing the need for fluid replacement. The material is similar to the soft contact lens. We are hopeful that the artificial skin will promote the rate at which new skin regenerates, and thus reduce the length of burn therapy by several weeks."

Dr. Smith and his collaborators are hopeful that the man-made skin will replace the various ingenious methods of replacing lost skin that have been used in the past: "Skin has been taken as a graft from a living donor, a cadaver, and even from pigs," he says, "and the amniotic sac has also been applied to burns."

"We are hoping that the new synthetic skin could also be used as an instant protective coating for the victims of such mass disasters as fires or atomic explosions. At present, we have no satisfactory first aid measure for such patients."

Dr. Smith suggests that the new skin may be useful in periodontal surgery, as well. "Currently, a graft is taken from the



Dr. Dennis Smith

patient's palate to cover a lesion around a tooth," he says, "but the artificial skin may take the place of the graft." It may also be used in surgery on the cornea; in coating implants, such as the pacemaker; and in biomedical devices, such as the artificial pancreas, whose leads would be coated with the hydrogel before being inserted in the body.

The research is being carried out in animals before clinical trials and the interdisciplinary project is being shared by chemistry, biology, and biomaterials science. Prof. Guillet has studied the chemistry of hydrogels extensively and is currently working on the problem of biodegradation of plastic materials. Dr. Zingg has been prominent in producing the oxygenator membrane used in heart surgery; bonding agents for bone; and the artificial pancreas.

Dr. Smith, the principal investigator, has worked in biomaterials for 20 years. He was responsible for designing the cement that is used in the artificial hip replacement developed in England by John Charley and used throughout the world. Dr. Smith also developed and patented the first adhesive dental cement used on dentine and enamel *in vivo*.

## Breton named to IRPP

Prof. Raymond Breton, Department of Sociology, has been appointed Deputy to the President of the Institute for Research on Public Policy.

The announcement was made by Dr. A.W.R. Carrothers, president of the Institute. Dr. Carruthers said that Prof. Breton will have particular responsibility for the development of the Institute's research base, the research programme in the integration of research plans. He will be the Institute's senior research officer and will represent the president in that capacity. The appointment takes effect June 1, 1976.

While serving as Deputy to the President of the Institute, Dr. Breton will continue to teach at the University of Toronto.

Prof. Breton, a native of Montmartre, Saskatchewan, holds degrees from the University of Manitoba, the University of Chicago, and The Johns Hopkins University. Before coming to U of T, he held academic appointments

at the University of Montreal, McGill and Johns Hopkins. His research includes work relating to immigrants, industrial work groups, nationalism in Quebec, inter-ethnic attitudes, ethnic diversity, urban ethnic pluralism, and career decisions of high school students. He is a recipient of numerous senior awards, is a member of many professional associations including the Royal Society of Canada, and is author of extensive publications relating to his research. He is the editor of *Canadian Review of Sociology and Anthropology*.

The Institute is an independent non-profit organization engaging in research and analysis designed to improve the basis for informed choice and decision by the public of Canada and its leaders on questions of public policy. It seeks to fill the need in Canada for an independent institute where research can be carried out into long-term (five to 25 years) governmental matters of all kinds.

## RESEARCH NEWS

### St. John's College, Cambridge 1977 Commonwealth Fellowship

The Council of St. John's College, Cambridge, invites applications for a Commonwealth fellowship to be held for the year 1977-78. The fellowship is offered to a citizen of a Commonwealth country on leave from a Commonwealth university. Candidates must have completed post-graduate training and have held a university post. Applications must be received at St. John's College no later than Jan. 15, 1977. Selection will be made in March 1977.

For further information and application details please contact ORA at 978-2163.

### NATO Advanced Study Institute Series Reports Published

The NATO Advanced Study Institutes, that holds gatherings bringing together some of the best minds from the international scientific community, in co-operation

with the NATO Scientific Affairs Division, has published a series of reports of these meetings on the latest advances in physics. For more information about these publications, please contact ORA at 978-2163.

### Application Deadline Dates

The following are deadline dates in the summer months for receipt

by the designated agencies of applications for research support: AUG. 1 — Connaught Fund; AUG. 15 — Deafness Research Foundation; AUG. 31 — Manpower and Immigration.

Applicants for research support from external agencies are reminded that applications should be forwarded to ORA at least ten working days prior to agency deadline date.

## JOB OPENINGS

Below is a partial list of job openings at the University. Interested applicants should read the Promotional Opportunity postings on their staff bulletin boards, or telephone the personnel office for further information. The number in brackets following the name of the department in the list indicates the personnel officer responsible. Please call:

(1) Sylvia Holland, 978-6470; (2) Wendy Chin, 978-5468; (3) Manfred Wevers, 978-4834; (4) Ann Sarsfield, 978-2112; (5) David Christman, 978-7308; (6) Bill Hooper, 978-6749.

**Clerk Typist III** (\$7,130 — 8,390 — 9,650) Vice-President & Provost Office (1), Microbiology & Parasitology (4), Radiological Research Laboratories (P.T.) (4), Media Centre (5), Medical Sciences Building (4), Preventive Medicine & Biostatistics (4)

**Secretary I** (\$7,130 — 8,390 — 9,650) Research Administration (1), Electrical Engineering (5), Chemistry (1), Social Work (4), Medicine (4)

**Secretary II** (\$7,850 — 9,230 — 10,610) Health Administration (4), Zoology (1), New College (1), Personnel (1), Medicine (4)

**Laboratory Technician II** (\$9,610 — 11,300 — 13,000) Microbiology & Parasitology (4)

**Laboratory Technician III** (\$10,600 — 12,470 — 14,340) Medical Genetics (4), Anaesthesia (4)

**Landscape Foreman** (\$10,600 — 12,470 — 14,340) Physical Plant (5)

**Programmer III** (\$13,973) Library Automation Systems (3)

**Programmer IV** (\$16,990 — 19,990 — 22,990) Library Automation Systems (3)

**Assistant Editor** (\$9,610 — 11,300 — 13,000) Information Services (1)

**Engineering Technologist** (\$12,450 — 14,650 — 16,850) MSB Central Services (4)

**Graphic Artist II** (\$8,640 — 10,160 — 11,680) Geology (1)

**Professional Engineering Officer IV** (\$18,900 — 22,240 — 25,580) Physical Plant (6)

**Accountant VI** (\$18,900 — 22,240 — 25,580) Director of Finance (6)

## PH D ORALS

Since it is sometimes necessary to change a date of an oral examination, please confirm the information given in these listings with the Ph.D. oral office, telephone 978-5258.

Thursday, June 17

Nii-K Plange, Department of Sociology, "The Colonial State and Underdevelopment." Thesis supervisor: Prof. J. Wayne. Room 201, 65 St. George St., 10a.m.

Tuesday, June 20

David Frankel, Department of Pharmacology, "Investigations into the Role of Serotonin in Acute and Chronic Effects of Ethanol." Thesis supervisor: Prof. J.M. Khanna. Room 201, 65 St. George St., 10a.m.

Walter James Skrlac, Department of Chemistry, "Studies in Infrared Chelomineuminescence." Thesis supervisor: Prof. J.C. Polanyi. Room 201, 65 St. George St., 2 p.m.

Truong Vo-Van, Department of Physics, "The Optical Properties

of Aggregated Noble Metal Films." Thesis supervisor: Prof. G.D. Scott. Room 4049, Robarts Library, 2 p.m.

## EVENTS

SATURDAY 19

**Canadian Birthday Party.** Members' committee are giving a special party to celebrate the opening of the Sigmund Samuel Canadian Gallery on this day 25 years ago. Free tours of galleries, Canadiana Gallery, 14 Queen's Park Cresc. W. 2-4 p.m.

**FRIDAY 25**

**Orientation of the Configurational One-Sidedness of Biomolecules (Colloquium)** Prof. Stanley I. Goldberg, University of New Orleans. 158 Lash Miller Chemical Laboratories. 4 p.m.